

# PATENT ABSTRACTS OF JAPAN

(11)Publication number :

2001-088326

(43)Date of publication of application : 03.04.2001

(51)Int.Cl.

B41J 2/18

B41J 2/185

B41J 2/165

(21)Application number : 11-272649

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(22)Date of filing : 27.09.1999

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## (54) HEAD CLEANING DEVICE FOR INK-JET PRINTER

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a head cleaning device capable of preventing an ink from remaining in a cap as well as certainly sucking the remained ink.

**SOLUTION:** A head cleaning device 1 for an ink-jet printer comprises a cap 20 capable of closely contacting with a printing head 10, and a negative pressure generating means for having the inside of the cap 20 in a negative pressure, for sucking an ink from the printing head 10 to a liquid chamber 22 by having the liquid chamber 22 in a negative pressure, wherein an ink collecting part 30 mounted closely contacting with the cap 20, a plurality of first ink sucking holes 23, 24 formed in the liquid chamber 22 so as to communicate with the ink collecting part 30, a second ink sucking hole 51 formed in the ink collecting part 30 so as to communicate with the negative pressure generating means, and an air flowing hole 41 formed in the ink collecting part 30 for sending the air to the ink collecting part 30 by generating a negative pressure are provided, with a part or the entirety of the first ink sucking holes 23, 24 provided along the close contact parts of the cap 20 and the printing head 11.

